

【書類名】 図面

【図1】

FIG. 1A  
(a)

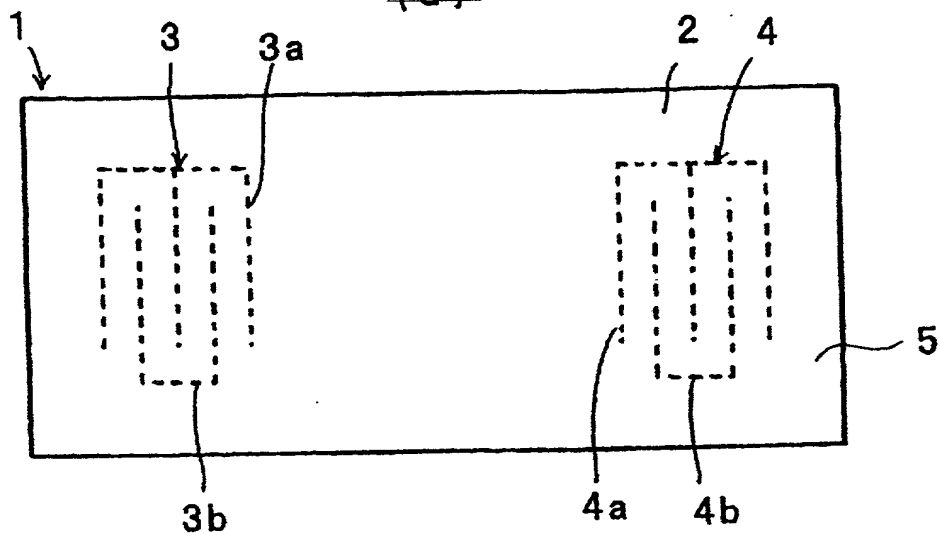
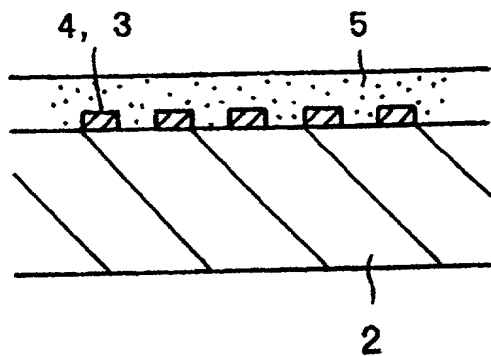


FIG. 1B  
(b)



【図2】 FIG.2

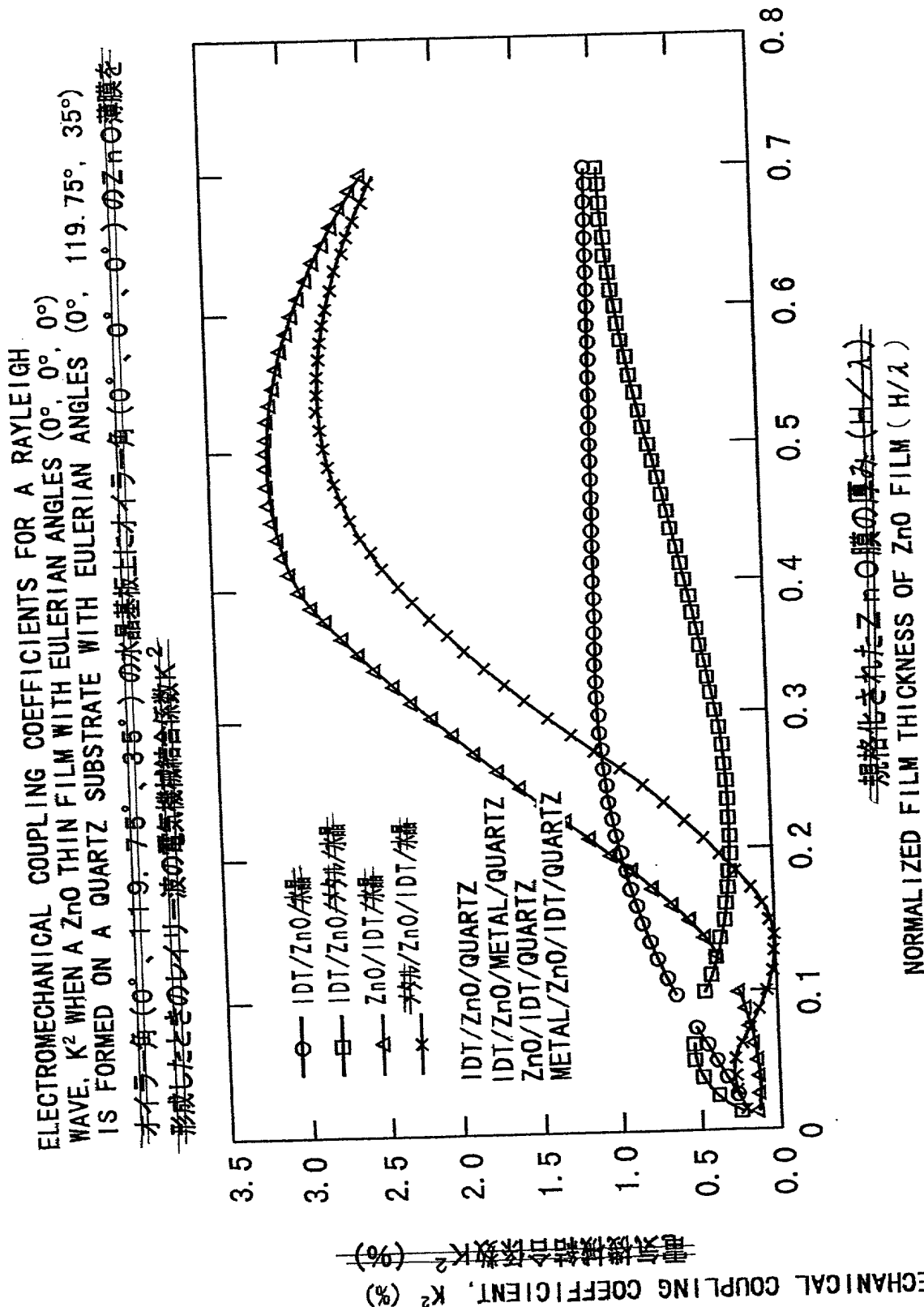
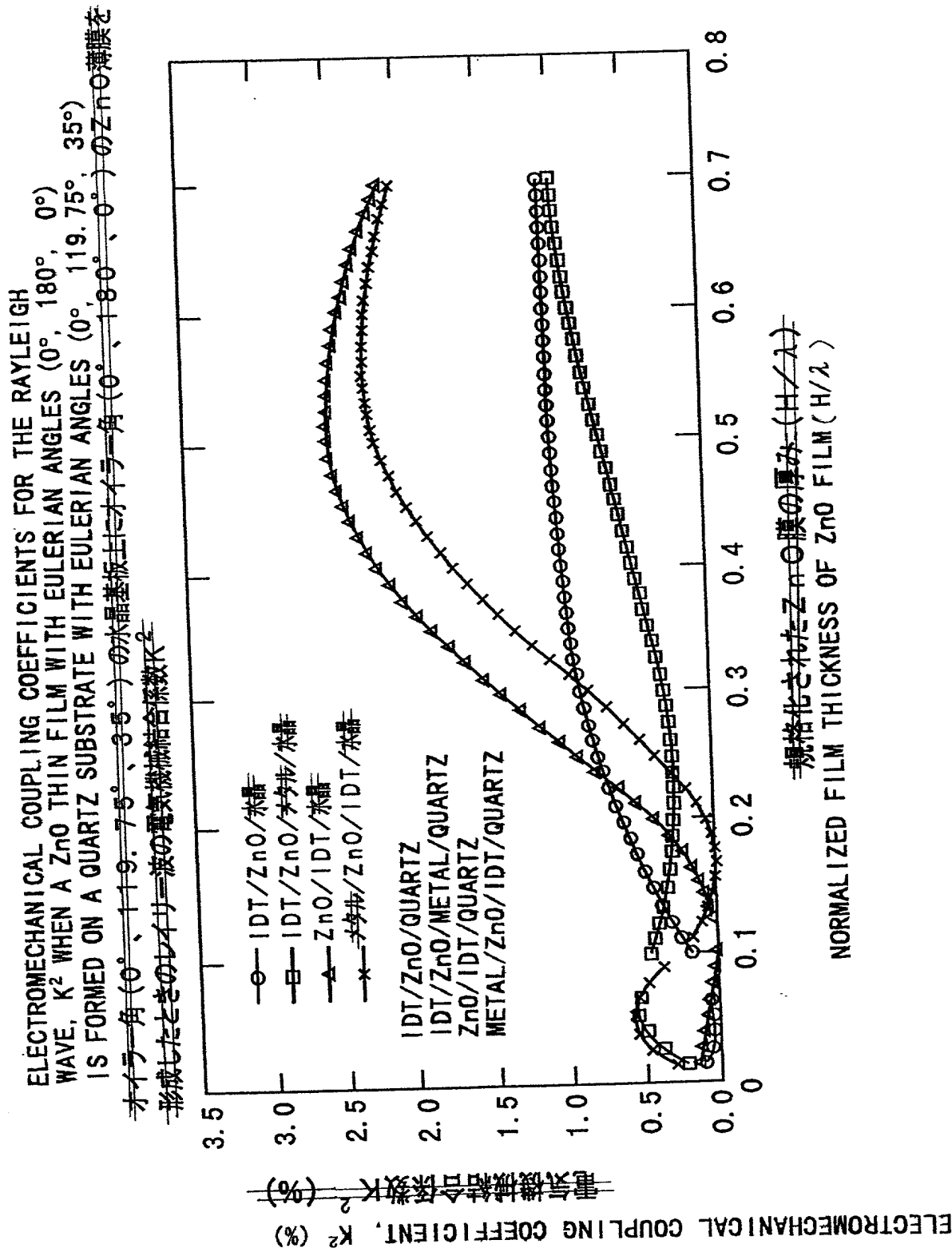


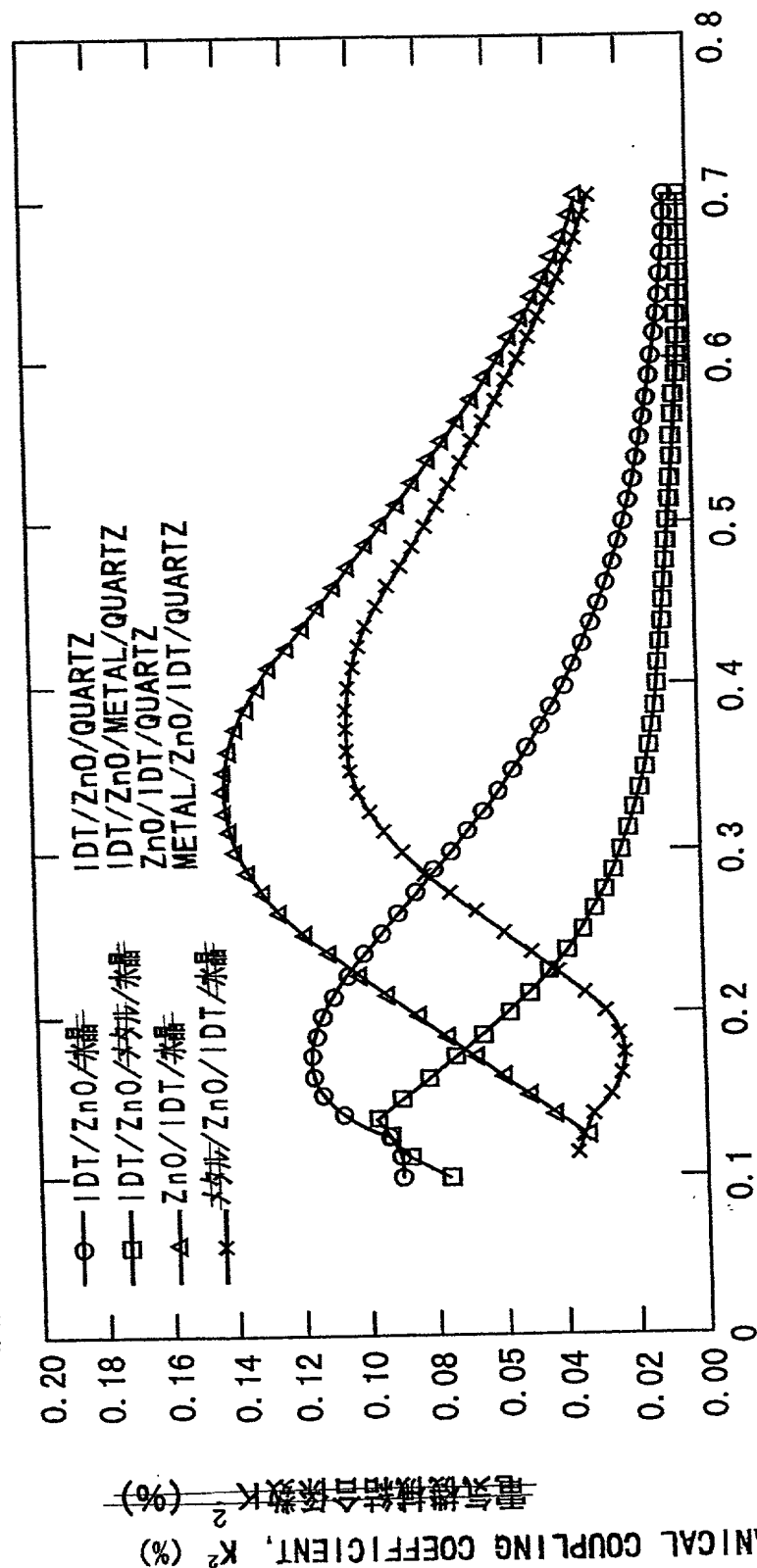
FIG. 3



ELECTROMECHANICAL

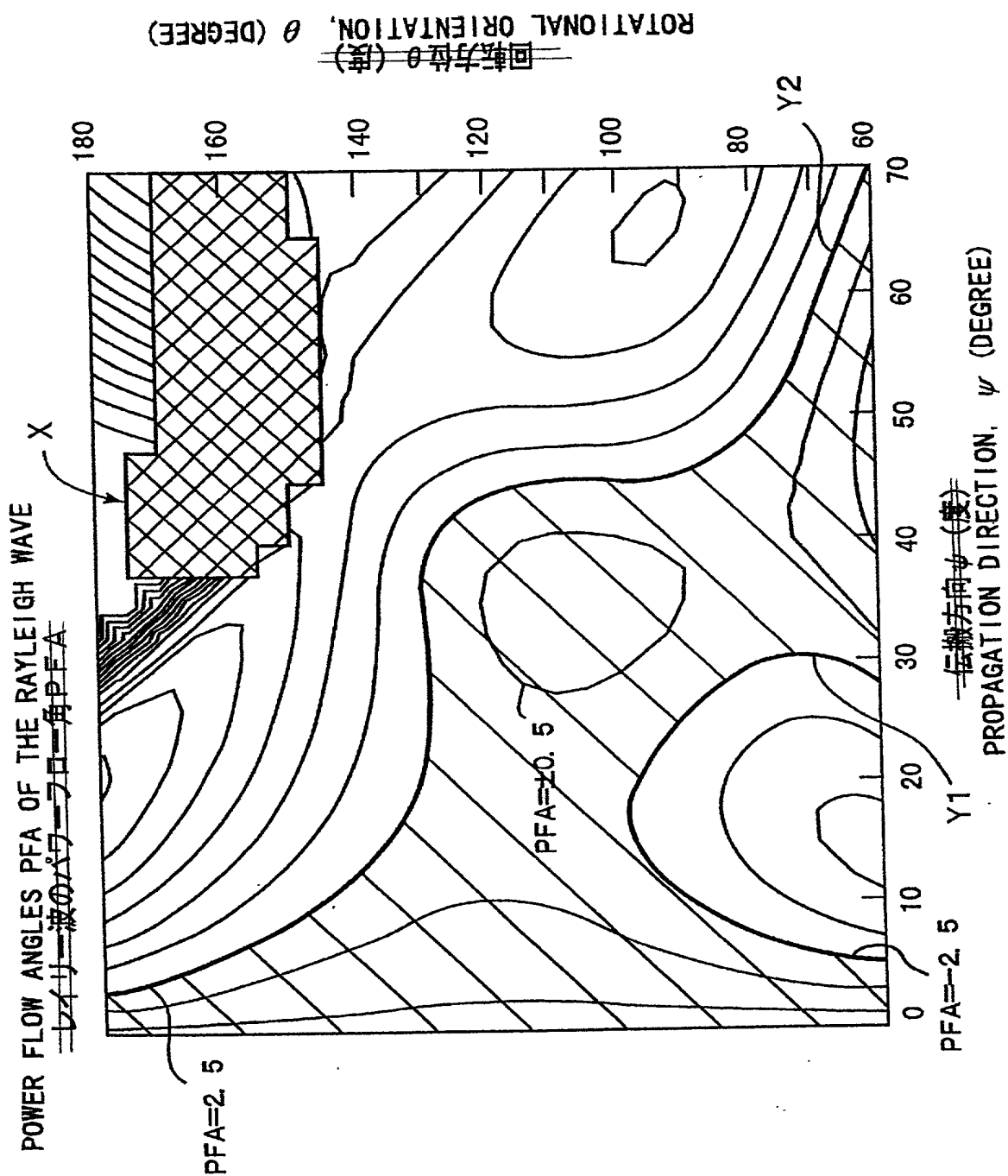
【図5】 FIG.5

ELECTROMECHANICAL COUPLING COEFFICIENTS FOR THE SPURIOUS  
WAVE,  $K_{SP}^2$  WHEN A ZnO THIN FILM WITH EULERIAN ANGLES ( $0^\circ$ ,  $180^\circ$ ,  $0^\circ$ )  
IS FORMED ON A QUARTZ SUBSTRATE WITH EULERIAN ANGLES ( $0^\circ$ ,  $119.75^\circ$ ,  $35^\circ$ )  
オイラ=角 ( $0^\circ$ ,  $119.75^\circ$ ,  $35^\circ$ ) の水晶基板にオイラ=角 ( $0^\circ$ ,  $180^\circ$ ,  $0^\circ$ ) のZnO薄膜を  
形成したときのレイサ=波の電気機械結合係数 $K^2$

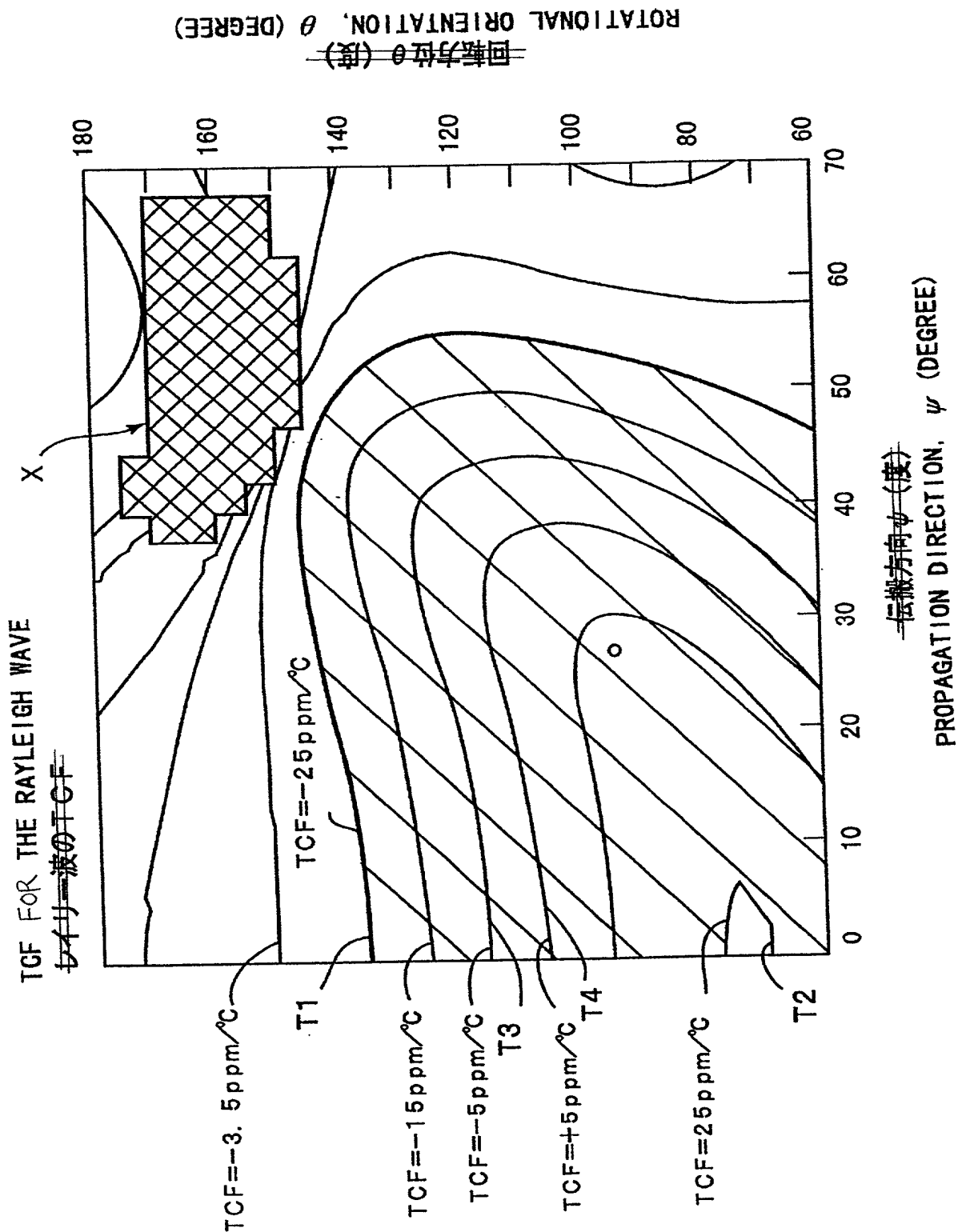


規格化されたZnO膜の厚み ( $H/\lambda$ )  
NORMALIZED FILM THICKNESS OF ZnO FILM ( $H/\lambda$ )

【図6】 FIG.6



【図7】 FIG.7



【図8】 FIG.8

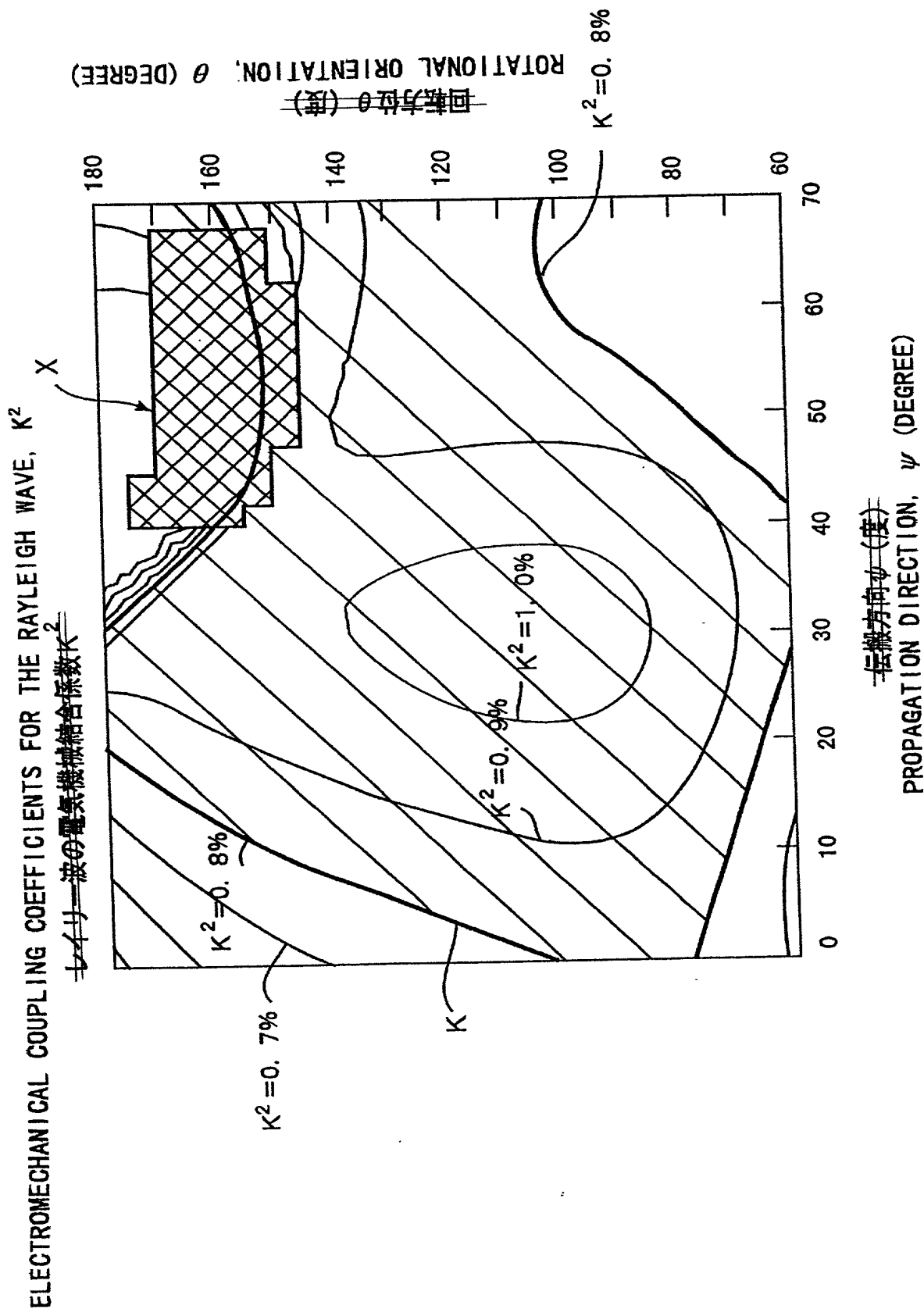
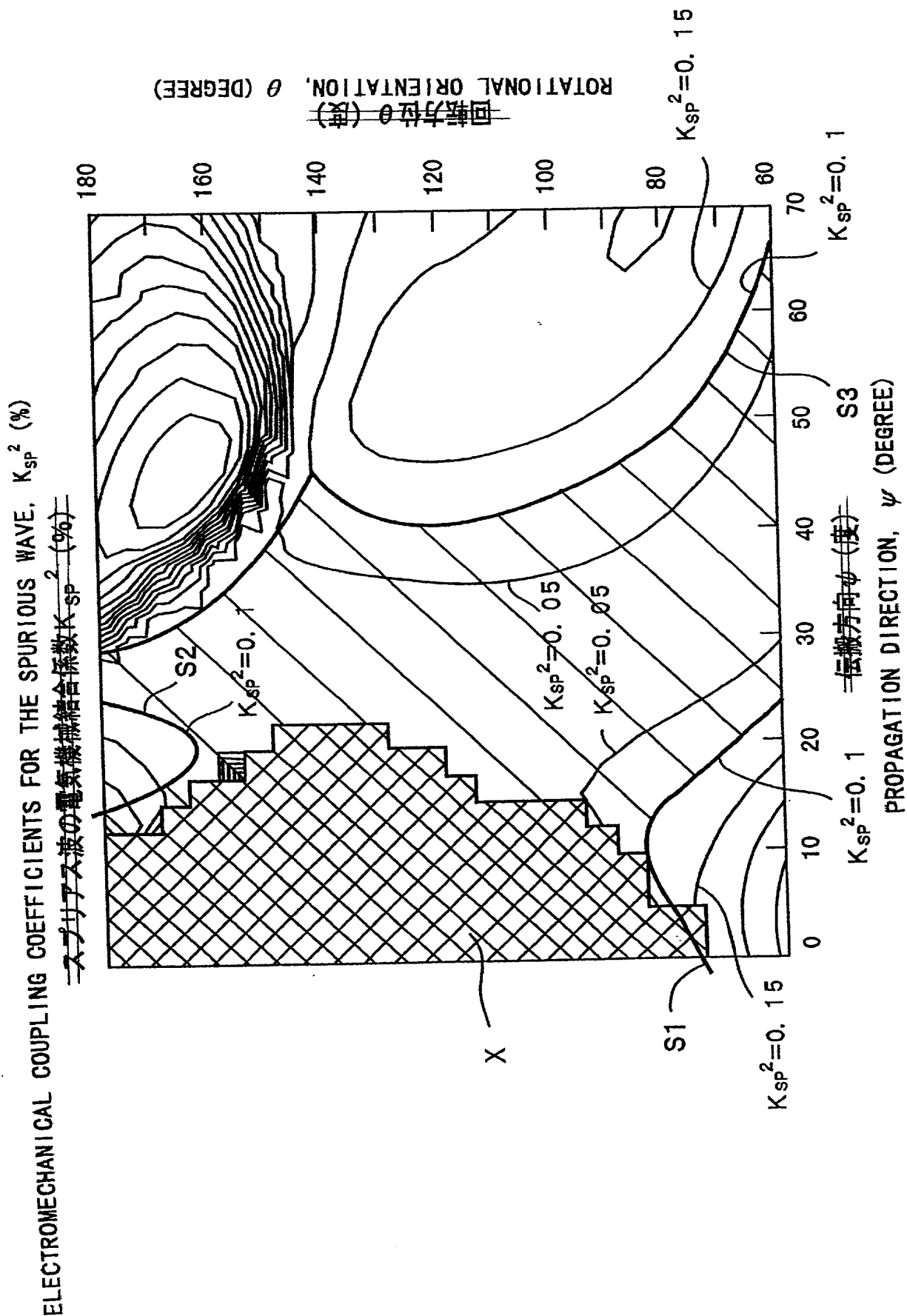
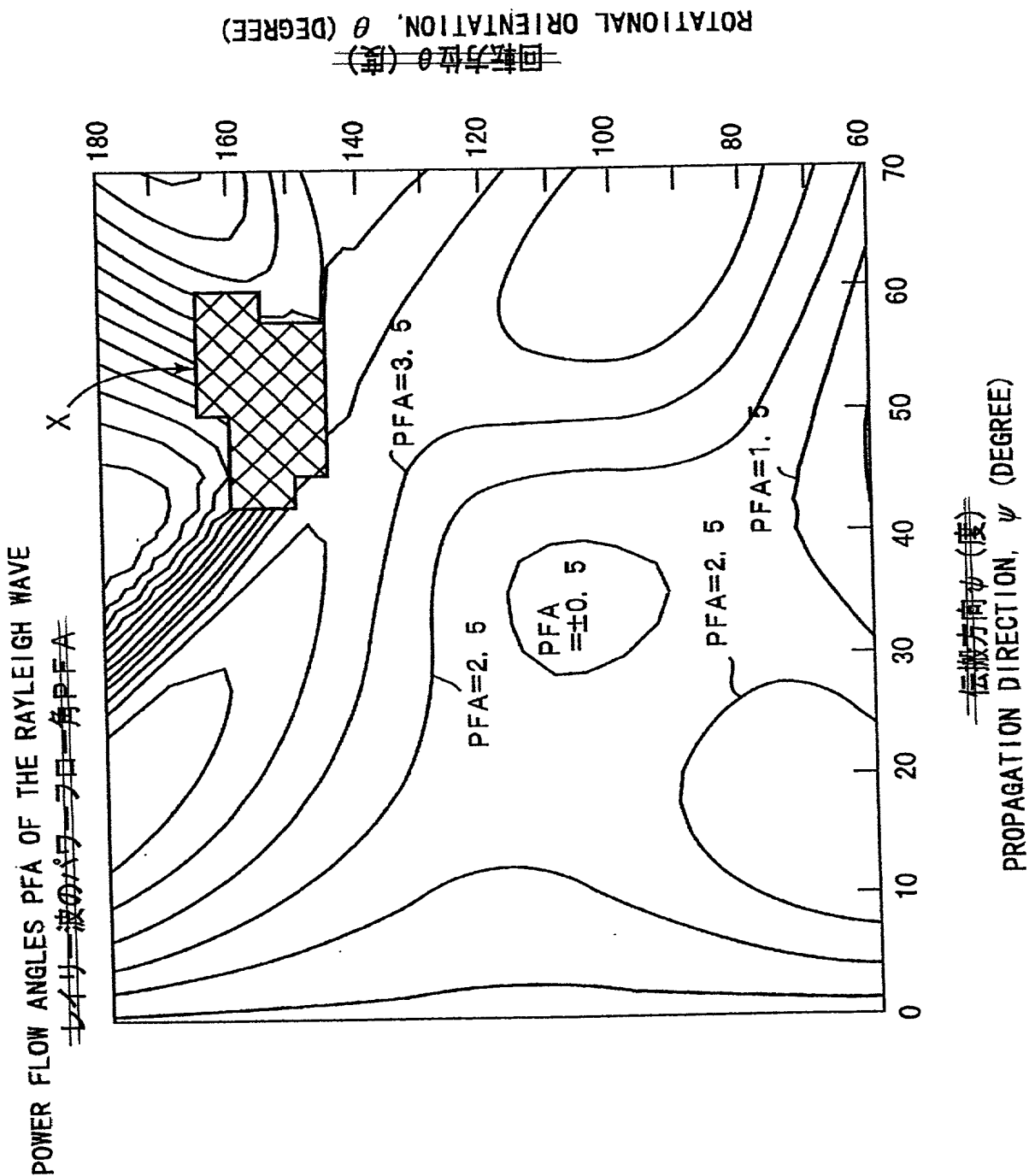




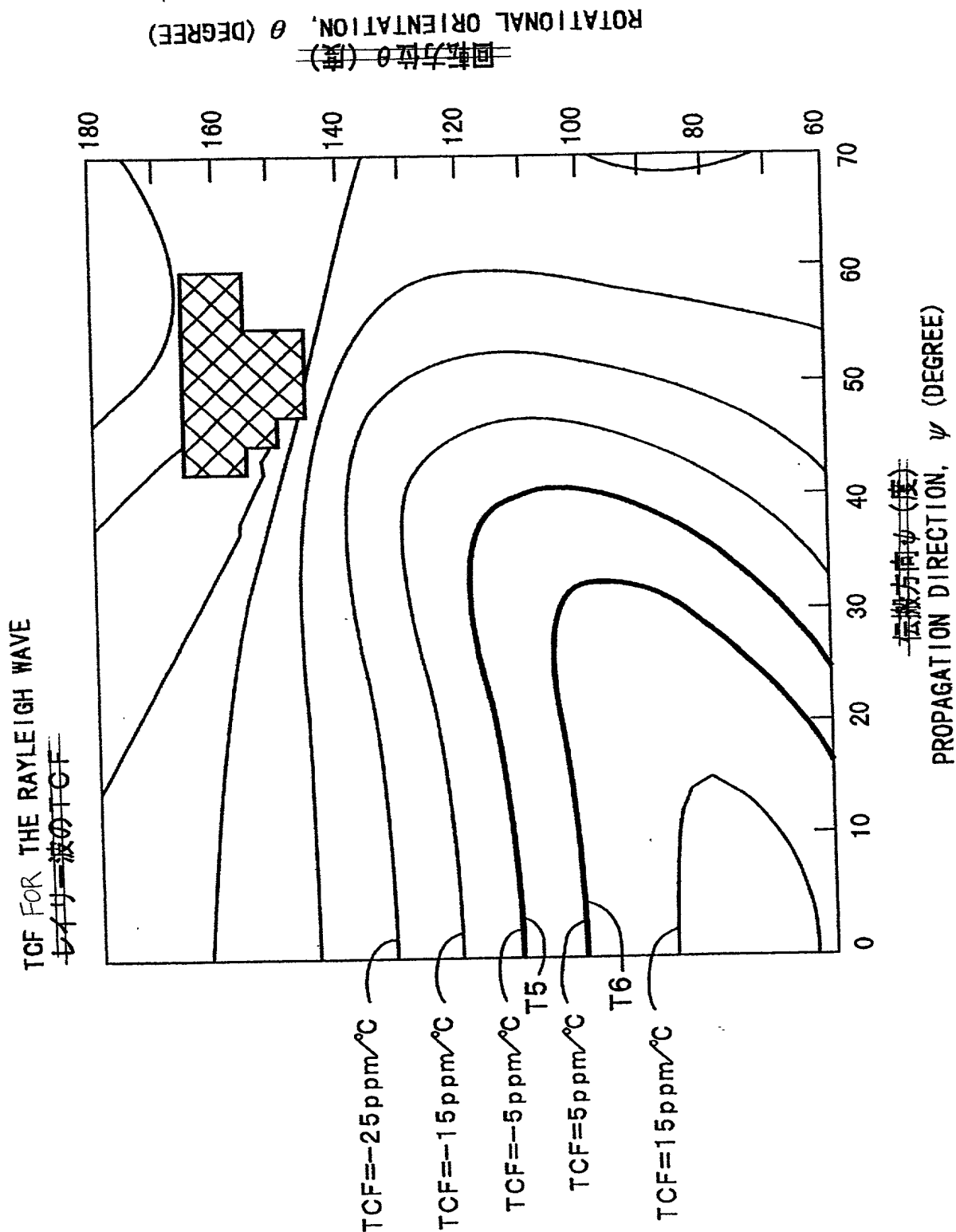
FIG. 9



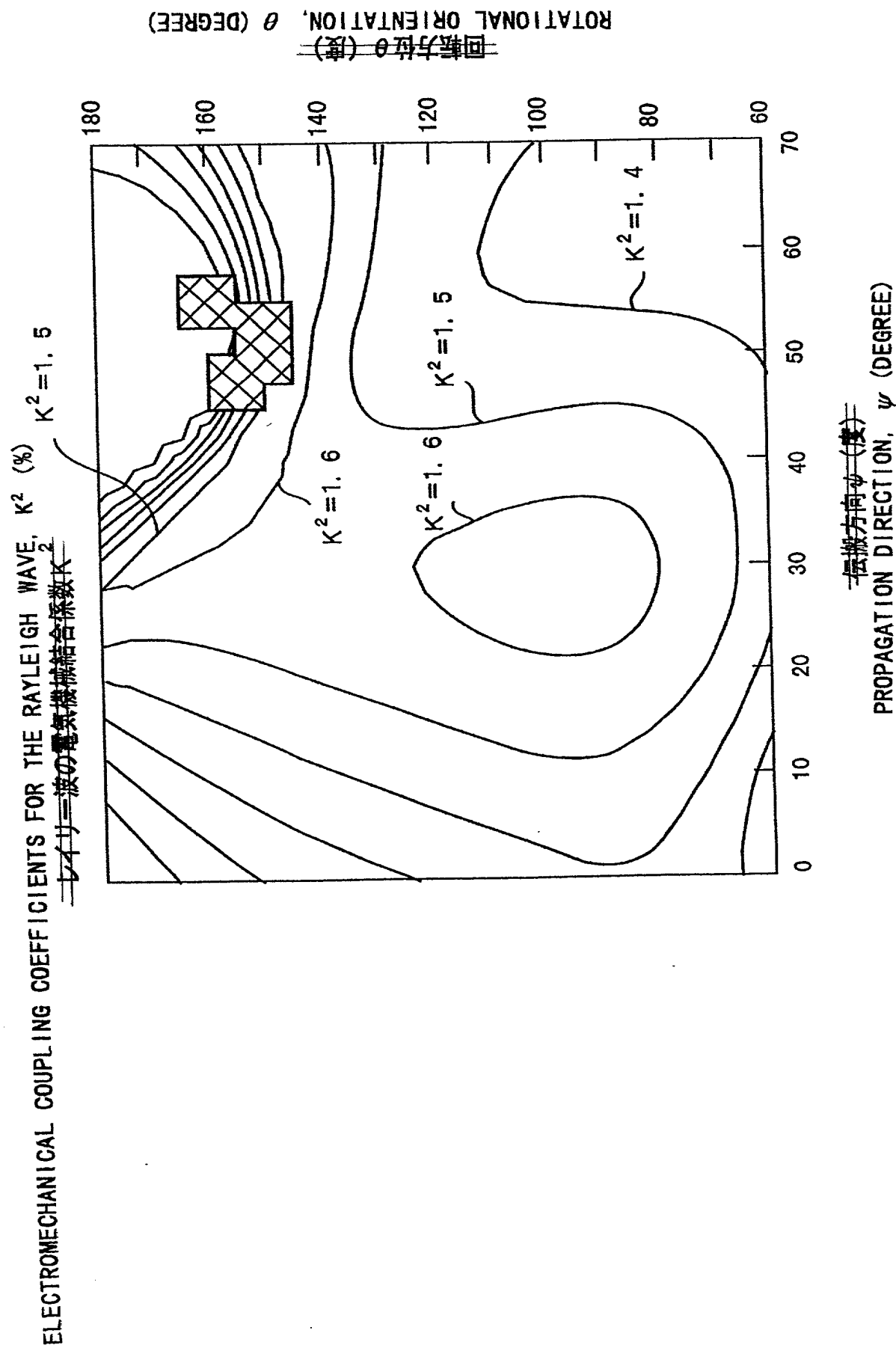
【図10】 FIG.10



~~【図11】~~ FIG.11

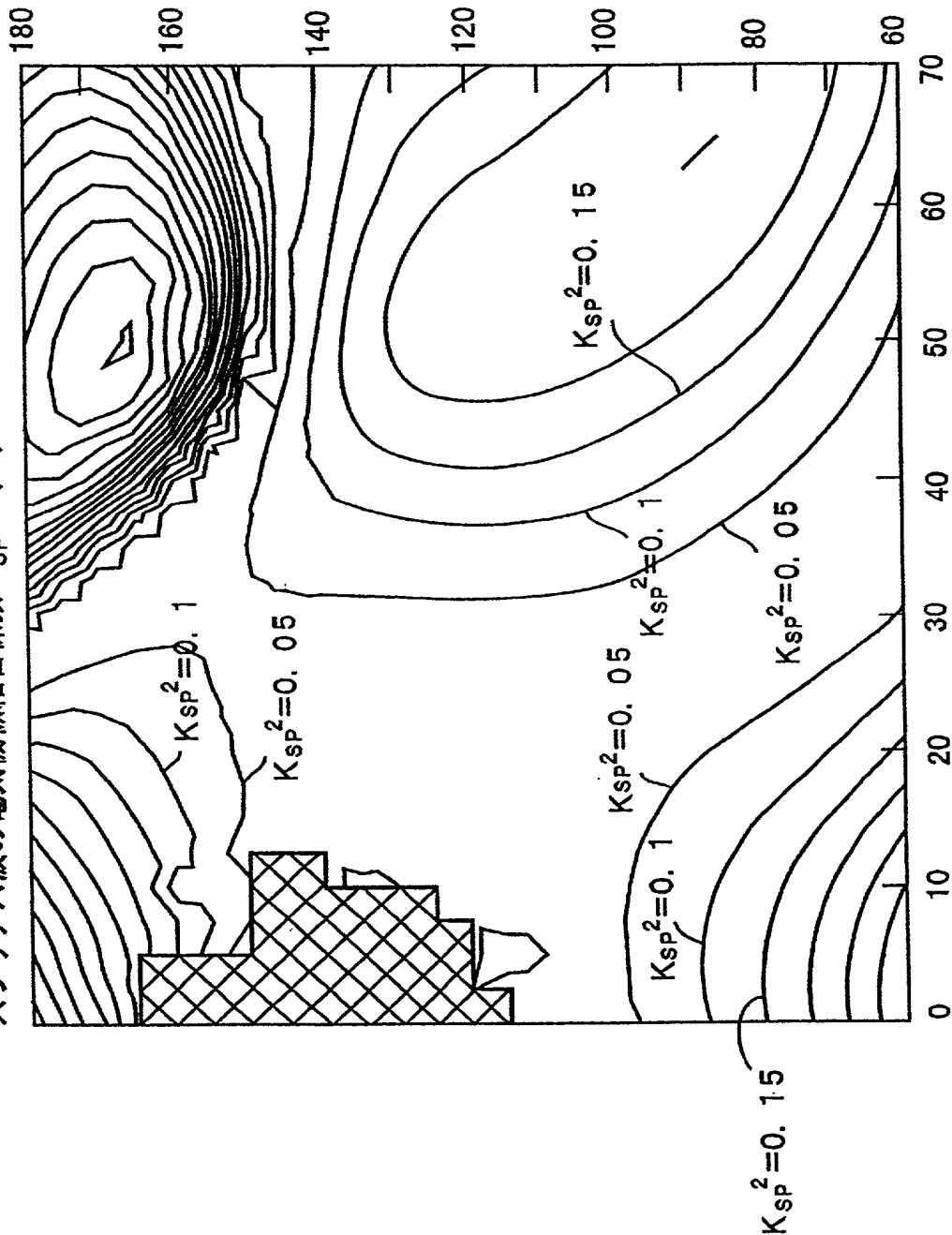


~~【図12】~~ FIG. 12



ELECTROMECHANICAL COUPLING COEFFICIENTS FOR THE SPURIOUS WAVE,  $K_{sp}^2$  (%)

~~スプリアス波の電気機械結合係数 $K_{sp}^2$  (%)~~



~~伝搬方向 $\psi$  (度)~~  
PROPAGATION DIRECTION,  $\psi$  (DEGREE)

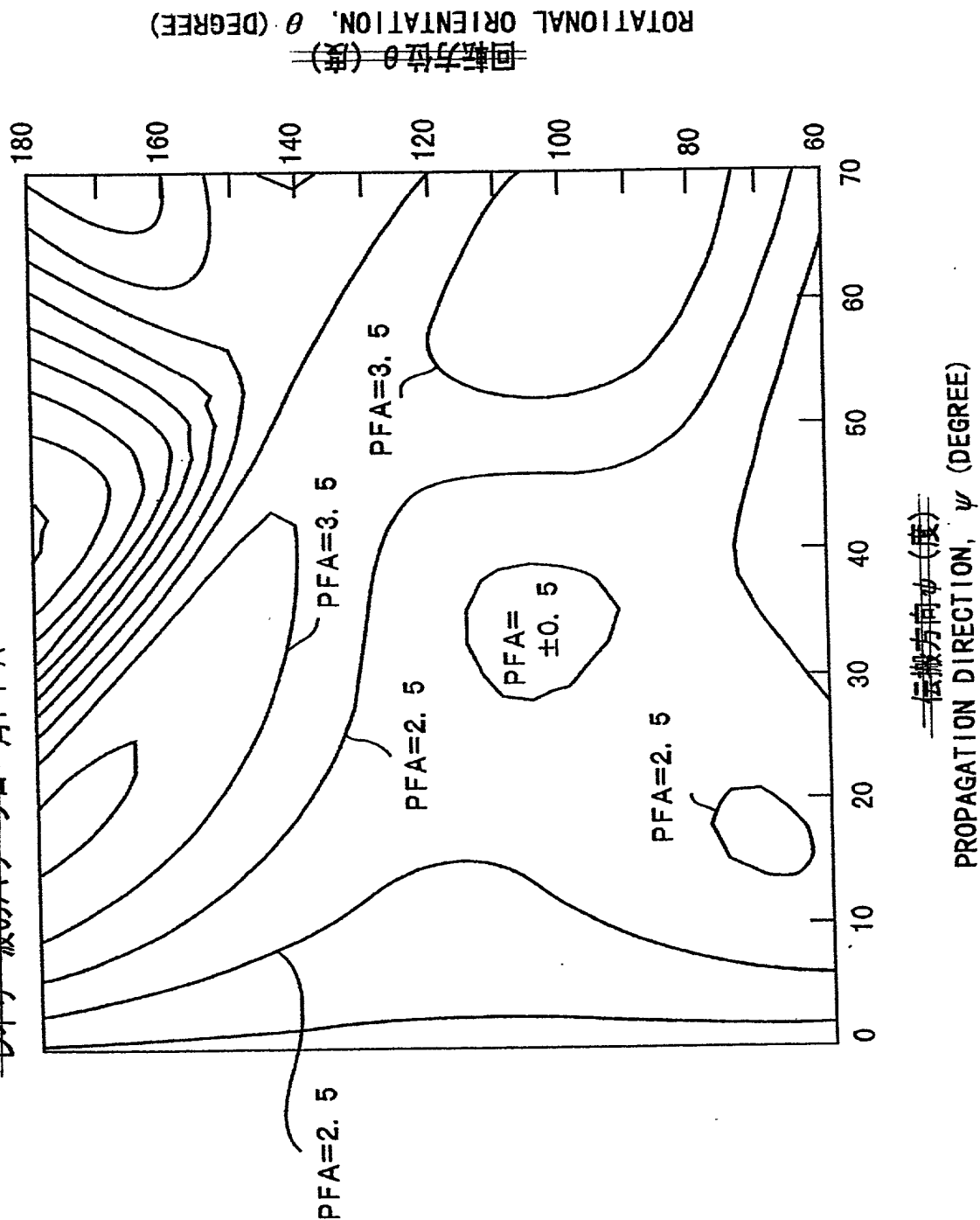
~~回転方位 $\theta$  (度)~~  
ROTATIONAL ORIENTATION,  $\theta$  (DEGREE)

~~【図13】~~ FIG.13

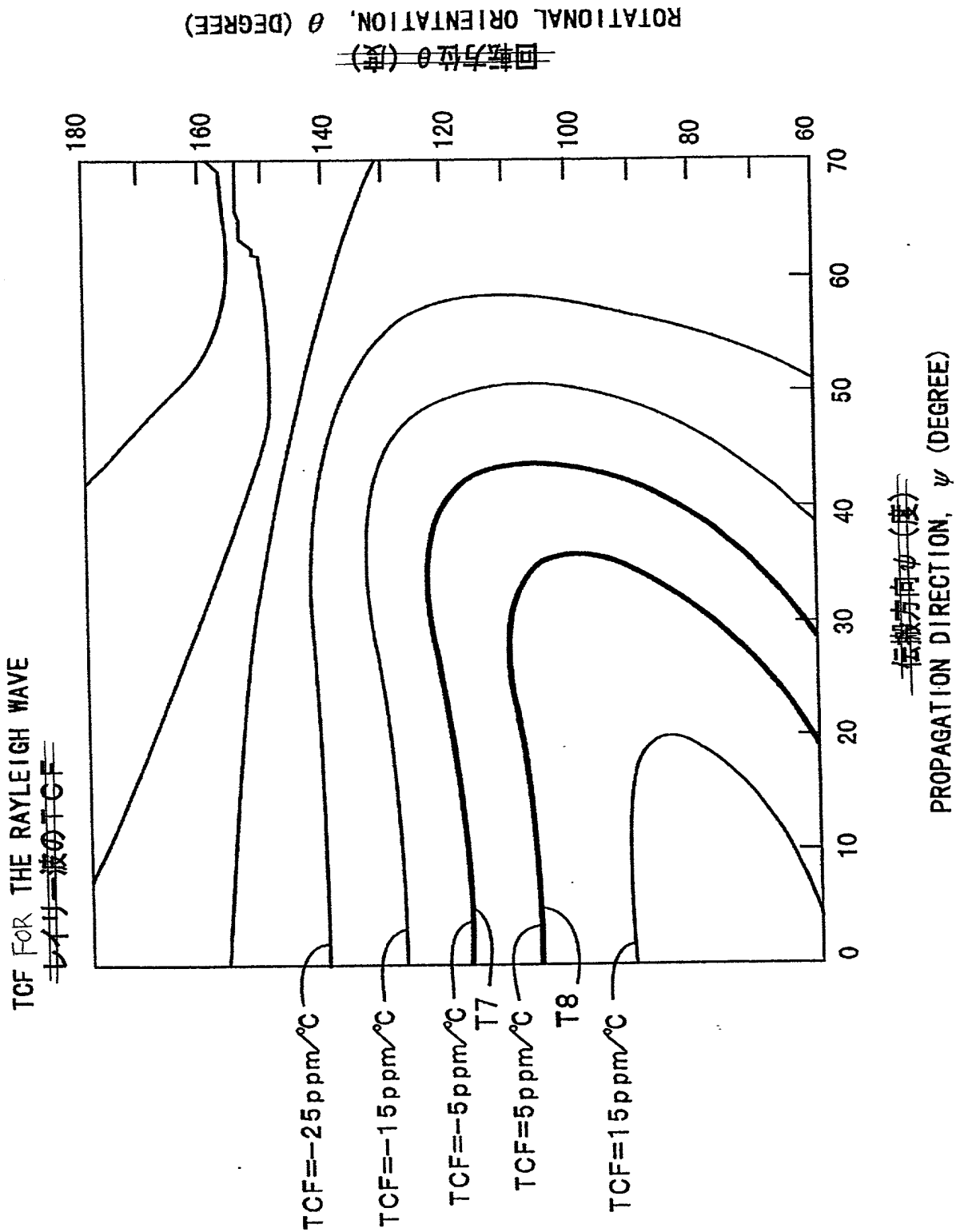
~~【図14】~~ FIG.14

POWER FLOW ANGLES PFA OF THE RAYLEIGH WAVE

~~レイサ=波のパワー=プロ=角PFA~~



~~【図15】~~ FIG. 15



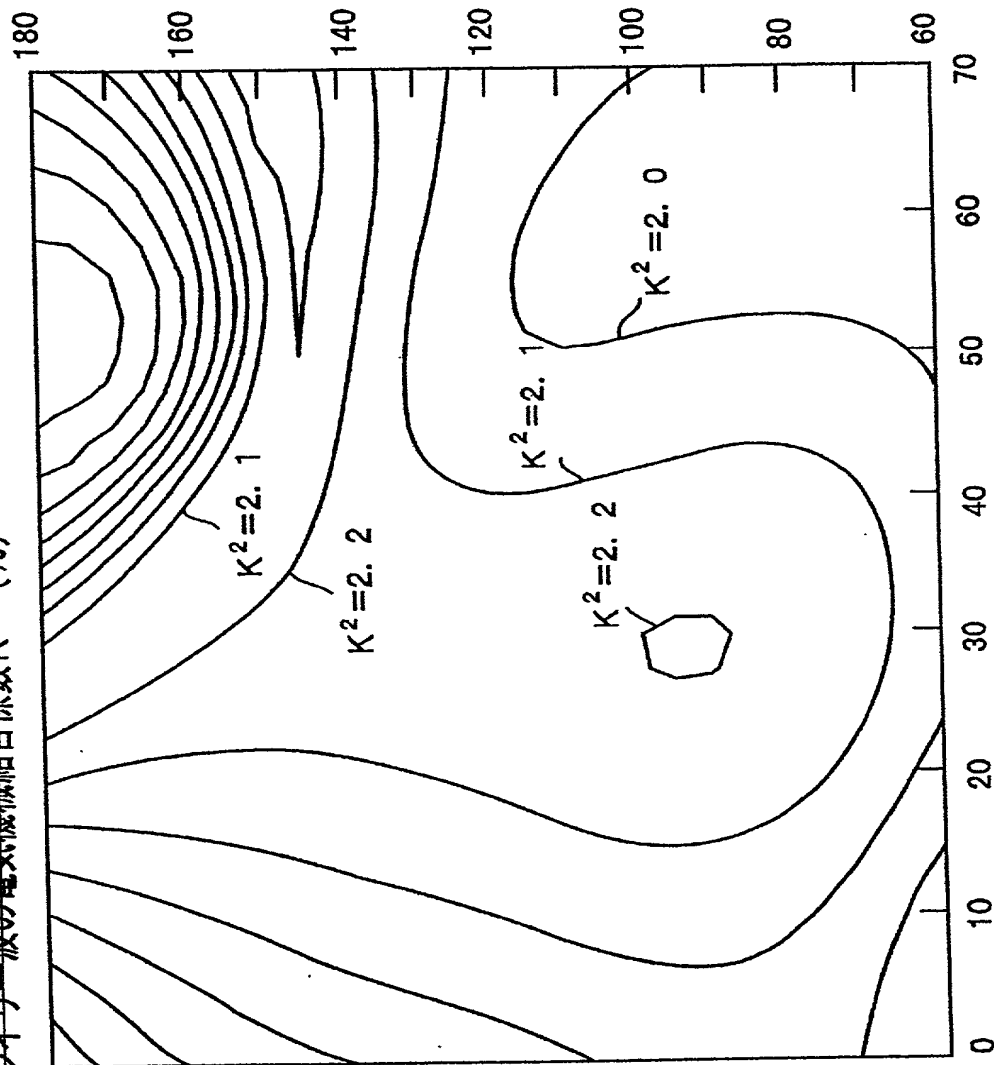
~~【図16】~~ FIG.16

ROTATIONAL ORIENTATION,  $\theta$  (DEGREE)

~~回転方位 $\theta$  (度)~~

ELECTROMECHANICAL COUPLING COEFFICIENTS FOR THE RAYLEIGH WAVE,  $K^2$  (%)

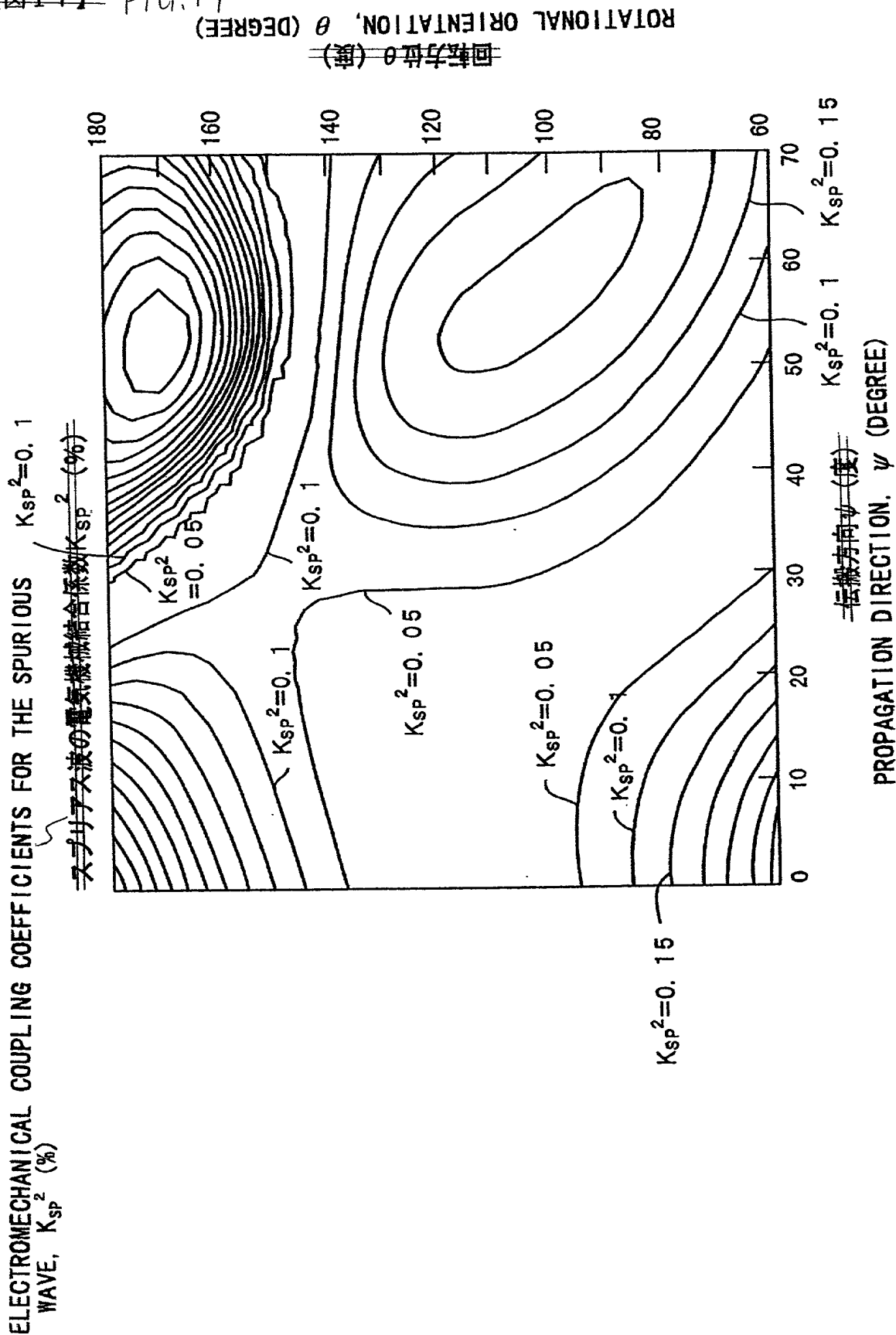
~~レイリー波の電気機械結合係数 $K^2$  (%)~~



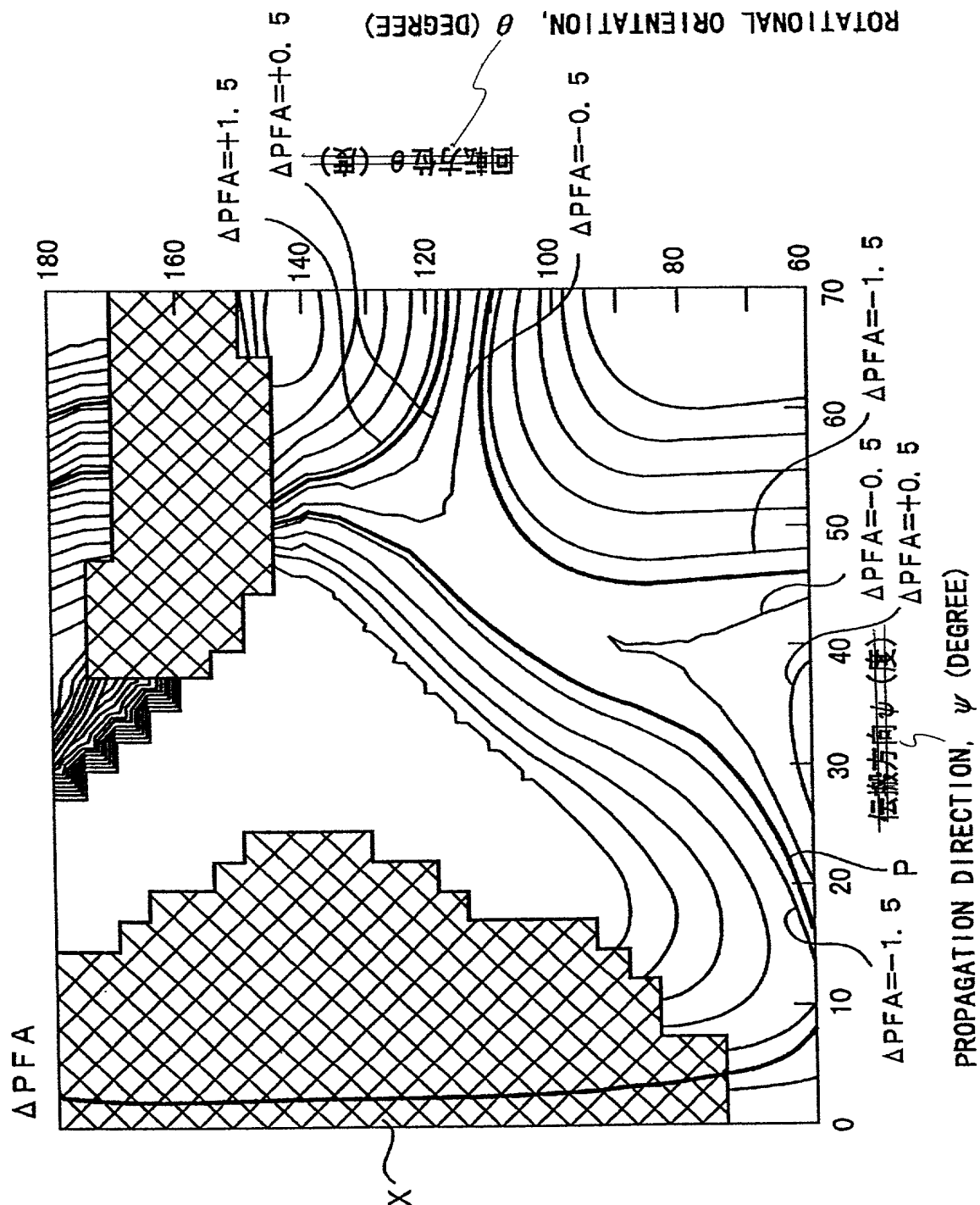
~~伝搬方向 $\psi$  (度)~~  
PROPAGATION DIRECTION,  $\psi$  (DEGREE)



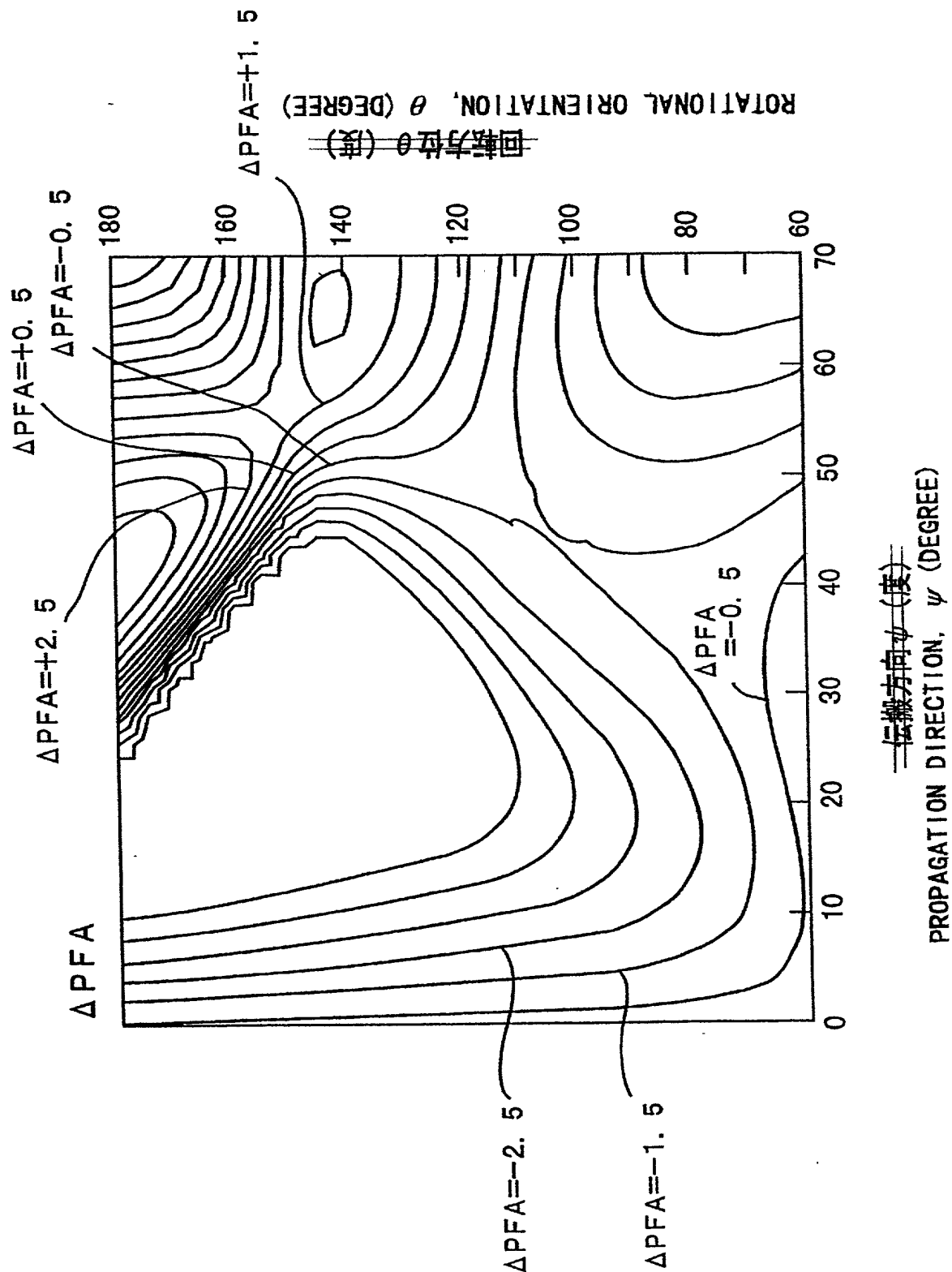
FIG. 17



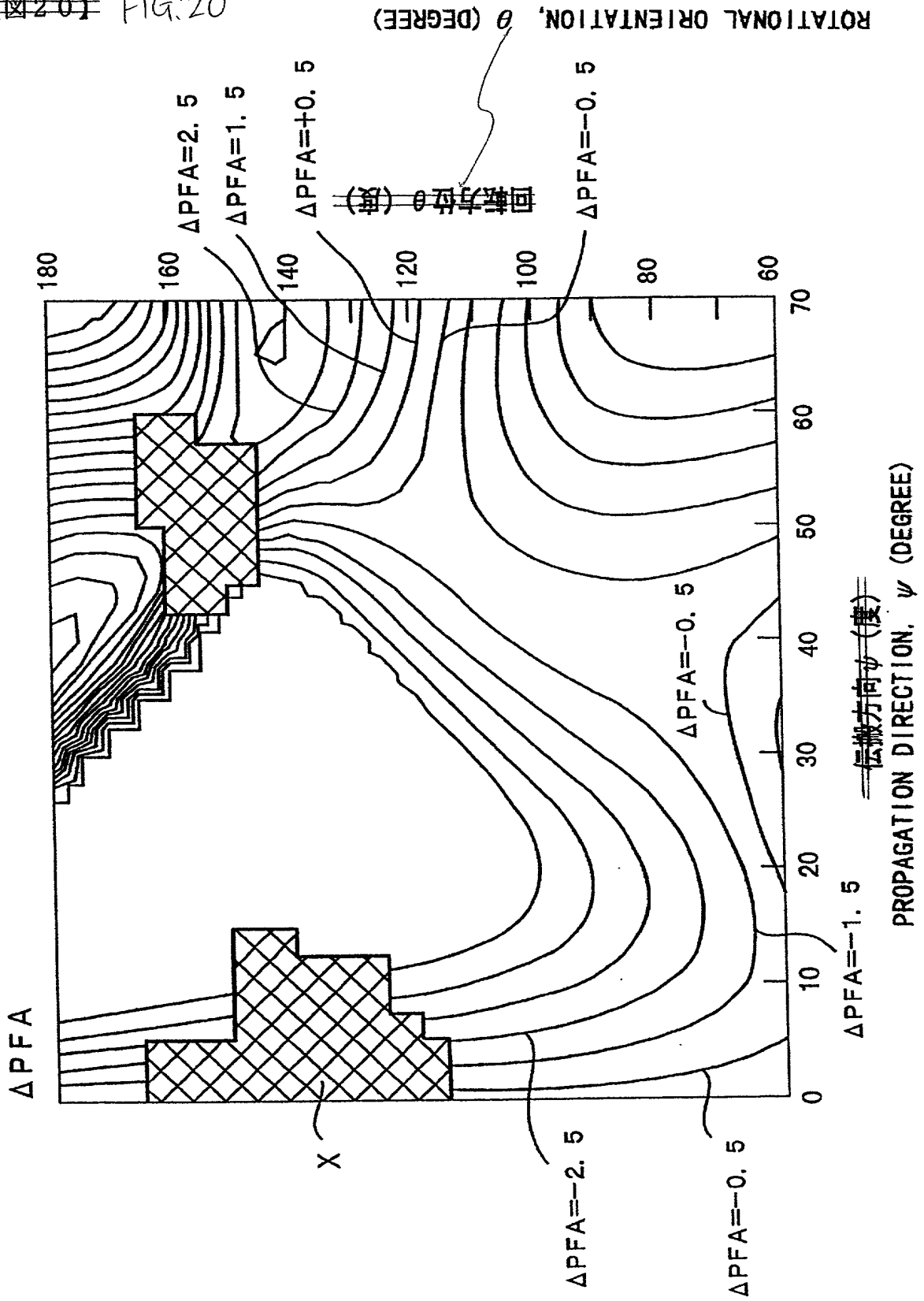
【図18】 FIG.18



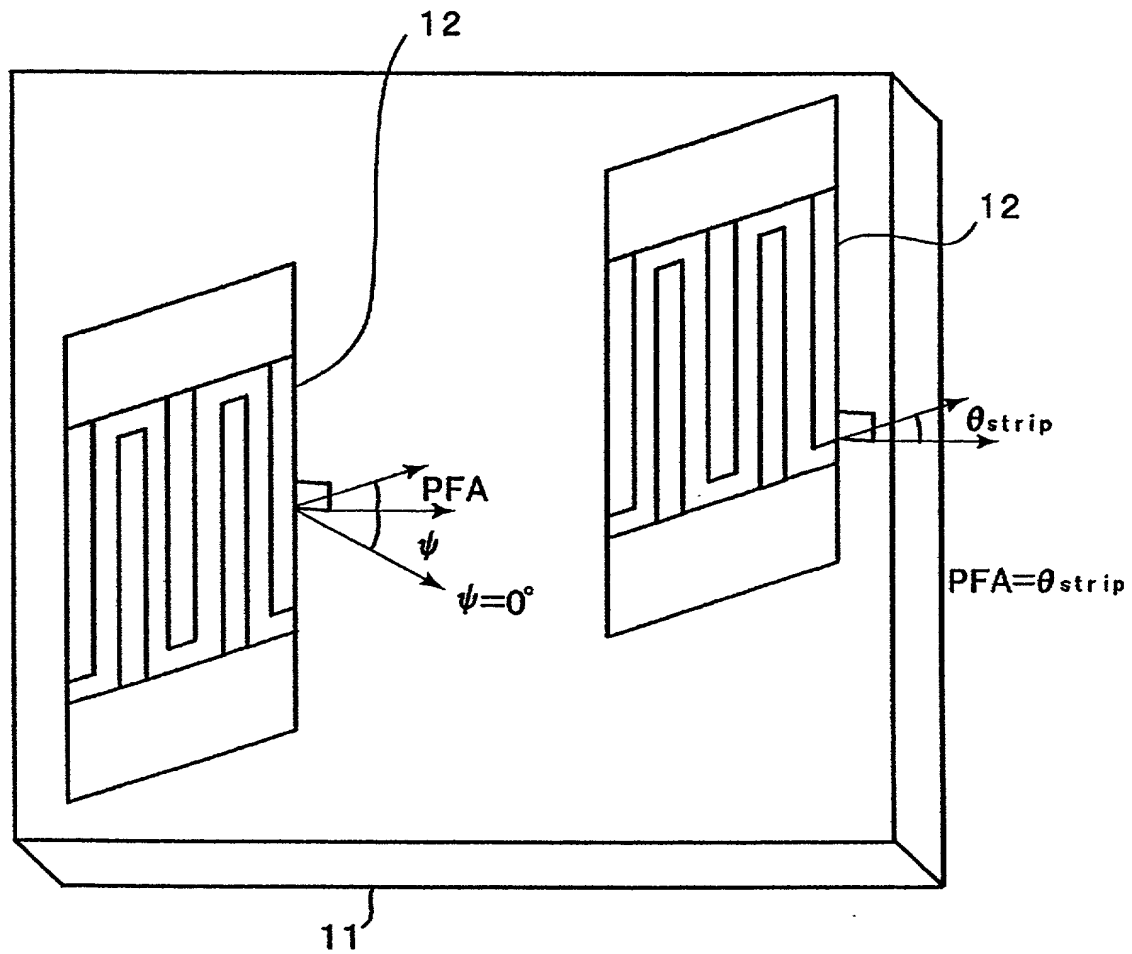
~~【図19】~~ FIG.19



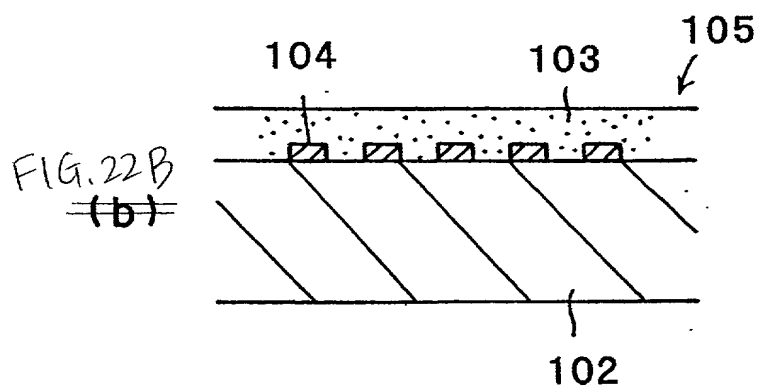
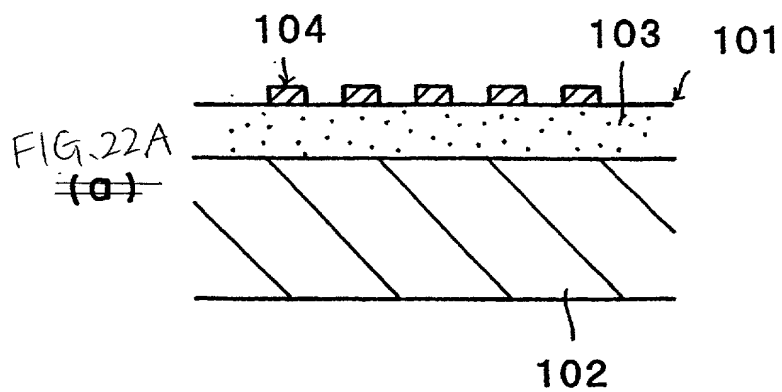
【図20】 FIG.20



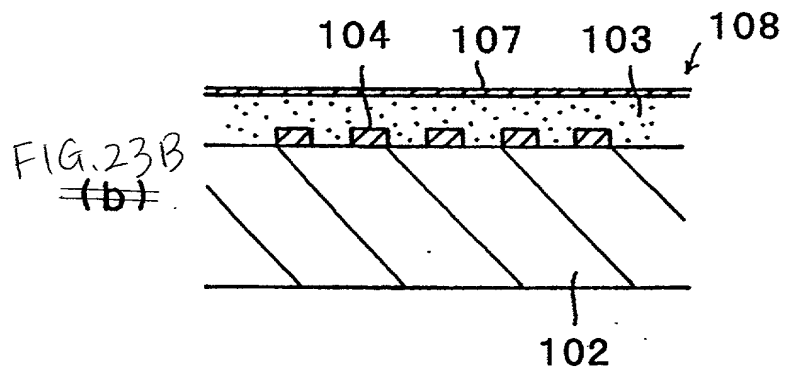
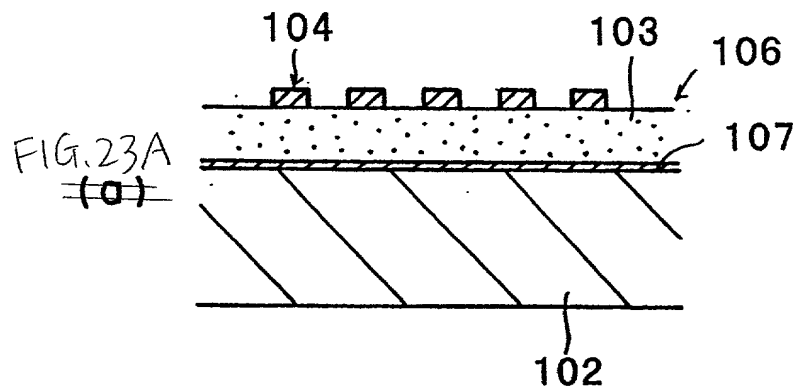
【図21】 FIG.21



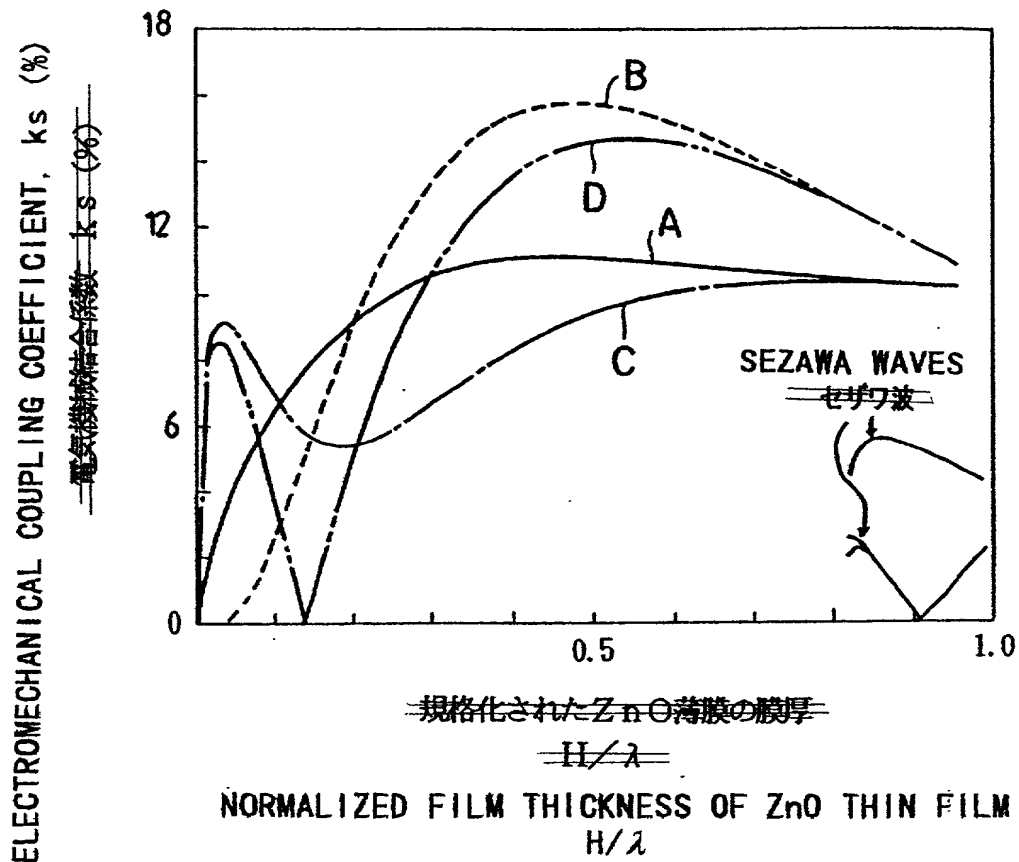
~~【図22】~~



~~【図23】~~



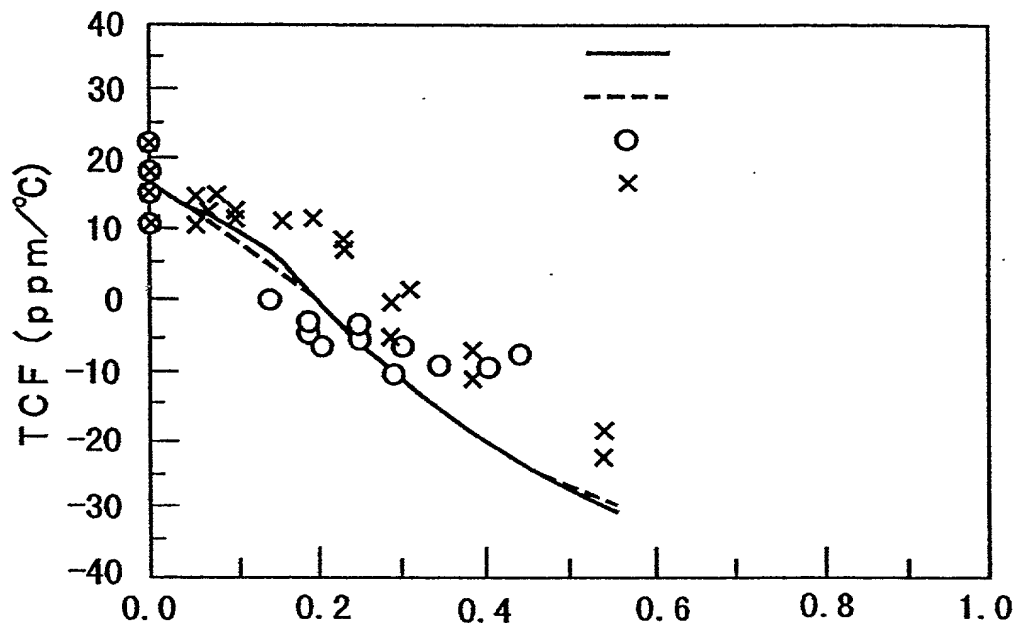
~~【図24】~~ FIG.24





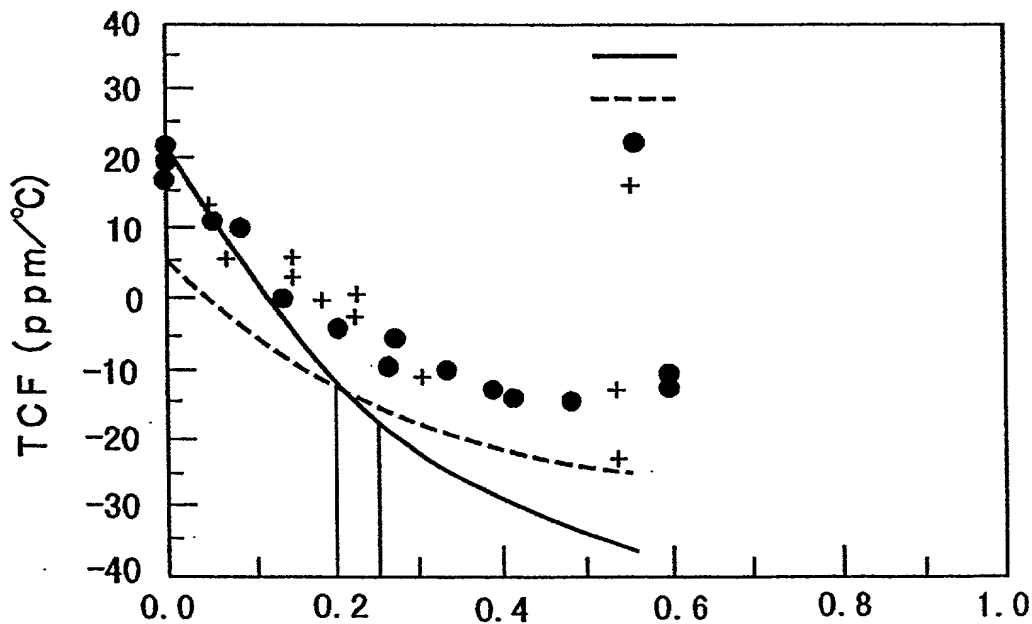
~~【図25】~~

FIG.25A  
(a)



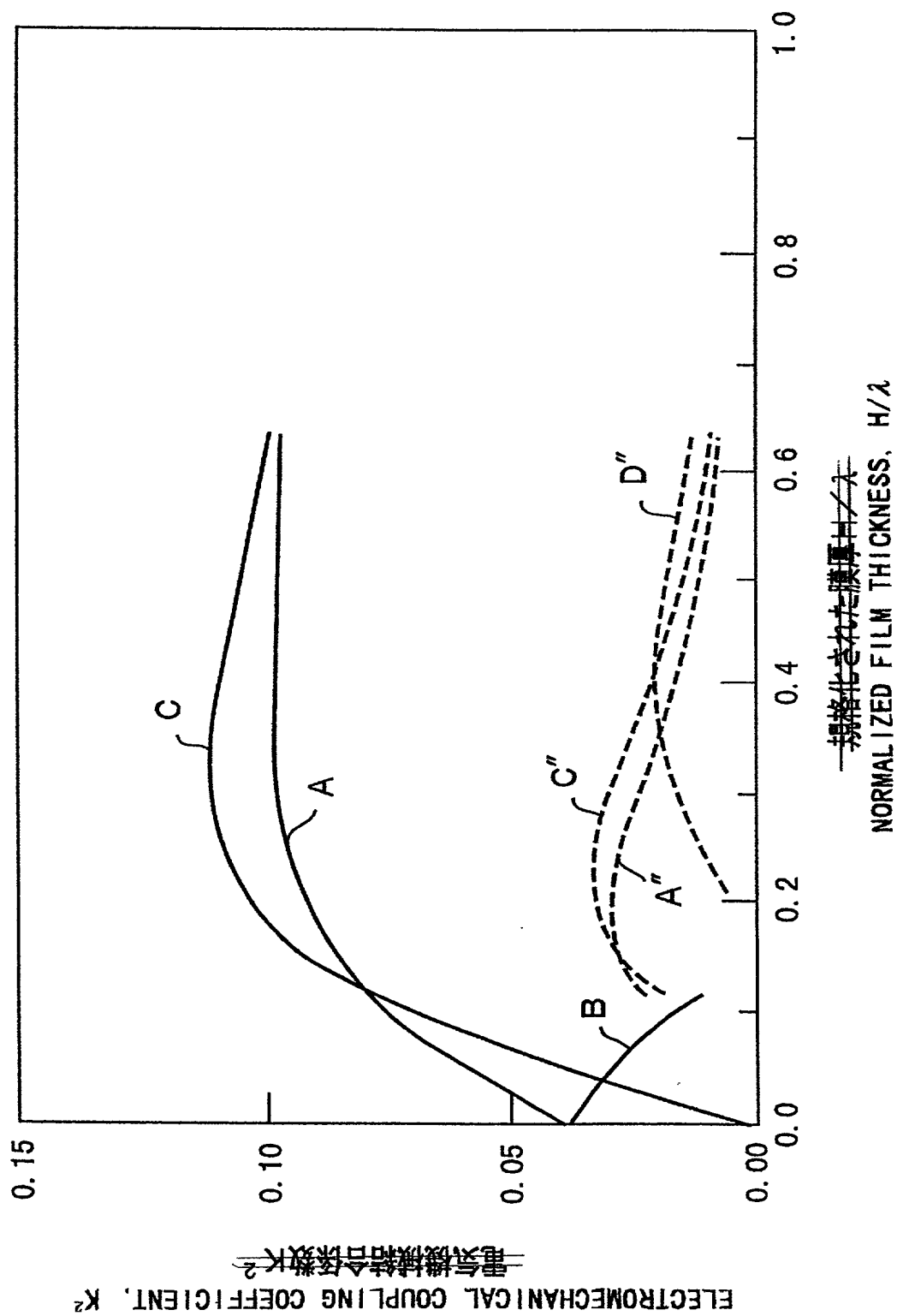
~~規格化されたZnO膜の膜厚 (H/λ)~~  
NORMALIZED FILM THICKNESS OF ZnO FILM (H/λ)

FIG.25B  
(b)



~~規格化されたZnO膜の膜厚 (H/λ)~~  
NORMALIZED FILM THICKNESS OF ZnO FILM (H/λ)

~~【図26】~~ FIG.26



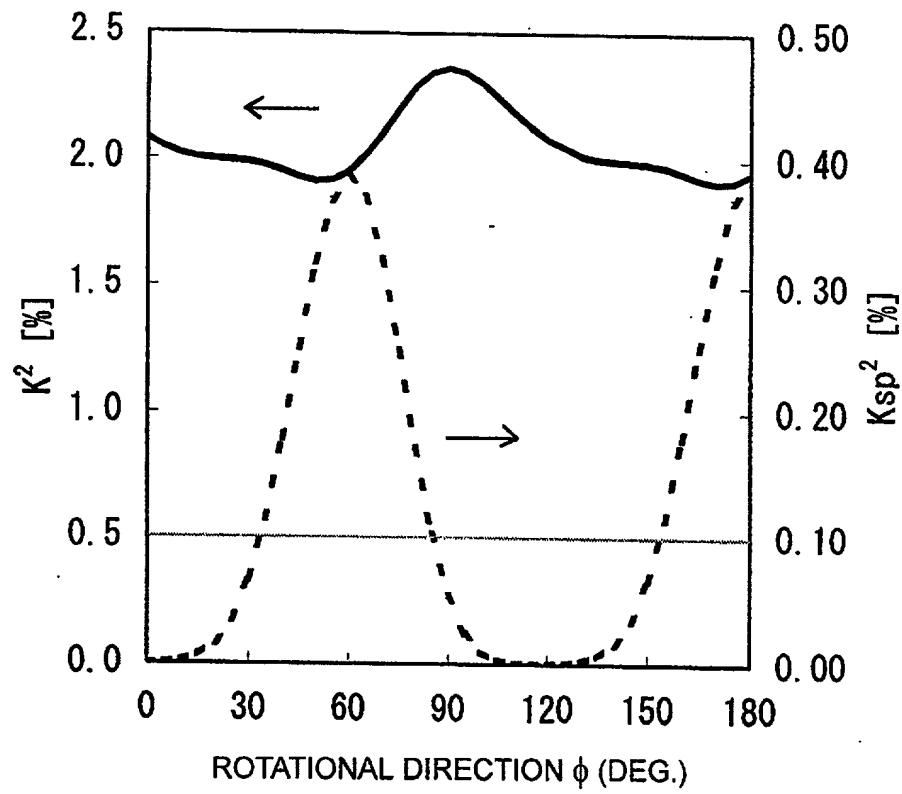


FIG. 27